

REMARKS

Claims 30-49 were withdrawn.

Claims 20-29, 50-53, and 87-115 stand allowed.

Claims 1-3, 5-10, 12-16, and 55-86 stand rejected.

Claims 4, 11, 54, 58, 65, 74 and 81 stand objected to.

Claims 1-19 are cancelled.

In accordance with the Examiner's suggestions, claims 54, 55, and 71 are amended. No new subject matter is present in these claims.

New claims 116-141 are added. No new subject matter is present in these claims.

Claims 20-29 and 50-117 are pending. Claims 20-29, 50-53, and 87-115 are allowed. The applicant submits that the remaining pending claims 54-86 and 116-141 are allowable and such allowance is respectfully requested in light of the following remarks.

35 USC §112 Rejections

Claims 55-70 and 72 stand rejected under 35 USC §112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

According to the Examiner, the specification does not disclose the inner leads having a constant second thickness as recited in claim 55 (emphasis in original). The applicant disagrees. To the contrary, the application as originally filed teaches that the leads are of two portions, inner leads (116a of FIG. 3a) that are within the package body, and outer leads (116b of FIG. 3a) that are located outside the package body (page 7, lines 30-34). FIG. 3a clearly shows that the inner leads 116a (everything within the package body) are of a constant second thickness, as recited in claim 55. Applicant notes that the recited first thickness of claim 55 is in reference to the recited chip attaching part and recited peripheral part (112a and 112b of FIG. 3a).

According to the Examiner, the specification does not disclose the inner leads are formed of a single layer as recited in claims 56 and 72 (emphasis in original). The applicant disagrees. FIG. 3a clearly shows that the leads 116 (inner leads 116a and outer leads 116b) have only a single layer, represented by the cross-hatching within the leads 116, indicating a single layer. This would be apparent to one of ordinary skill in the art.

The applicants submit that these rejections are overcome.

35 USC §102 Rejections

Claims 1-3, 5, 8-10, 55, 57, 59, 62-64, 71, 73, 75, and 78-80 stand rejected under 35 USC §102(b) as being anticipated by US Patent No. 5,014,113 issued to Casto, et al. (Casto). The applicant disagrees for the following reasons.

Claims 1-3, 5, and 8-10 are cancelled.

With regard to claim 55, in the Advisory Action the Examiner suggested that if the claim was amended to recite inner leads “totally” having a constant second thickness, the claim would distinguish over the Casto reference. The applicants adopt the Examiner’s suggestion and amend claim 55 in this manner.

The applicant submits that claims 56-70 are allowable for at least the same reason as claim 55.

With regard to claim 71, in the Advisory Action the Examiner suggested that if the claim was amended to recite bonding wires “directly connected” to the portion of the inner leads, the claim would distinguish over the Casto reference. The applicants adopt the Examiner’s suggestion and amend claim 71 in this manner.

The applicant submits that claims 72-86 are allowable for at least the same reason as claim 71.

35 USC §103 Rejections

Claims 6, 7, 16, 60, 61, 76, 77, 70 and 86 stand rejected under 35 USC §103(a) as being unpatentable over Casto.

Claims 6, 7, and 16 are cancelled. Claims 60, 61, 70, 76, 77, and 86 are dependent upon either claim 55 or 71. The applicants have amended claims 55 and 71 in a manner suggested by the Examiner to distinguish over the Casto reference. Thus, claims 60, 61, 70, 76, 77, and 86 are patentable over Casto because Casto fails to establish a *prima facie* case of obviousness with respect to them.

Claims 12-14, 66-68 and 82-84 stand rejected under 35 USC 103(a) as being unpatentable over Casto in view of Huang (2002/0113305).

Claims 12-14 are cancelled. Claims 66-68 and 82-84 are dependent upon either claim 55 or 71. The applicants have amended claim 55 and 71 in a manner suggested by the Examiner to distinguish over the Casto reference. The Huang reference also fails to disclose the elements of claims 55 and 71 that Casto lacks. Thus, a *prima facie* case of obviousness is not established with respect to claims 66-68 and 82-84 because the Casto/Huang combination fails to disclose all limitations inherent to claims 66-68 and 82-84. Consequently, claims 66-68 and 82-84 are allowable for at least the same reasons as claims 55 and 71, respectively.

Claims 15, 69 and 85 stand rejected under 35 USC §103(a) as being unpatentable over Casto in view of Kozono (6,177,718).

Claim 15 is cancelled. Claims 69 and 85 are dependent upon claim 55 and 71, respectively. The applicant have amended claims 55 and 71 in manner suggested by the Examiner to distinguish over the Casto reference. Kozono also fails to disclose the elements of claims 55 and 71 that Casto lacks. Thus, a *prima facie* case of obviousness is not established with respect to claims 69 and 85 because the Casto/Kozono combination fails to disclose all limitations inherent to claims 69 and 85. Consequently, claims 69 and 85 are allowable for at least the same reasons as claims 55 and 71, respectively.

Allowable Subject Matter

Claims 20-29, 50-53, and 87-115 stand allowable over the prior art of record.

Claims 4, 11, 54, 58, 65, 74 and 81 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

With regard to claim 4, new claim 116 is added that contains all the limitations of claim 4 (claim 4 is henceforth cancelled) and its base claim (claim 1, which is henceforth cancelled).

With regard to claim 11, new claim 117 is added that contains all the limitations of claim 11 (claim 11 is henceforth cancelled), and claim 117 is made dependent upon allowable claim 116.

With regard to claim 54, the applicant notes that it contains the same limitation as original claim 4. Thus, it appears that when claim 54 was previously added it was mistakenly made to be dependent upon original claim 11 (original claim 11 was dependent upon original claim 4) rather than upon previously added claim 52. Since the Examiner has indicated claim 52 is allowable, claim 54 is amended to be dependent upon claim 52. The objection to claim 54 is overcome.

With regard to claims 58 and 65, they are dependent upon claim 55, which has been previously shown to be allowable. Consequently, the objections to these claims are overcome.

With regard to claims 74 and 81, they are dependent upon claim 71, which has been previously shown to be allowable. Consequently, the objections to these claims are overcome.

New Claims

As previously mentioned, new claim 116 and 117 were added to incorporate an otherwise allowable dependent claim into a rejected base claim.

New claims 118-132 are added that depend from allowed claim 50. No new subject matter is added, as the new claims are based upon cancelled claims 2-16.

New claim 133 is added that depends from claim 58, which the Examiner has indicated contains allowable subject matter. Claim 58 depends from claim 55. Claim 55 was previously shown to be allowable. No new subject matter is added. Support for the claim may be found, among other places, on page 11, lines 13-22

New claim 134 is added that depends from claim 74, which the Examiner has indicated contains allowable subject matter. Claim 74 depends from claim 71. Claim 71 was previously shown to be allowable. No new subject matter is added. Support for the claim may be found, among other places, on page 11, lines 13-22.

New claims 135-136 are added that depend from claim 116. No new subject matter is added.

New claims 137-141 are added. Claims 138-141 depend from claim 137. No new subject matter is added, as support for claim 137 is found in FIG. 10 and in claim 20.

Conclusion

For the foregoing reasons, allowance of claims 20-29 and 50-141 of the application as amended is solicited. The Examiner is encouraged to telephone the undersigned at (503) 222-3613 if it appears that an interview would be helpful in advancing the case.



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